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BCT 26-OCT-1995
           MAU18263
                                   1665 bp
                                                     linear
LOCUS
           Mycobacterium avium alkyl hydroperoxidase C (ahpC) gene, complete
DEFINITION
           cds, and OxyR homolog gene, complete cds.
ACCESSION
           U18263
           U18263.1 GI:1040852
VERSION
SOURCE
           Mycobacterium avium
           Mycobacterium avium
 ORGANISM
           Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
           Corynebacterineae; Mycobacteriaceae; Mycobacterium; Mycobacterium
           avium complex (MAC).
REFERENCE
              (bases 1 to 1665)
           Sherman, D.R., Sabo, P.J., Hickey, M.J., Arain, T.M., Mahairas, G.G.,
 AUTHORS
           Yuan, Y., Barry, C.E. III and Stover, C.K.
           Disparate responses to oxidative stress in saprophytic and
 TITLE
           pathogenic mycobacteria
           Proc. Natl. Acad. Sci. U.S.A. 92 (14), 6625-6629 (1995)
  JOURNAL
              (bases 1 to 771)
REFERENCE
           Yamaguchi, R., Matsuo, K., Yamazaki, A., Takahashi, M., Fukasawa, Y.,
 AUTHORS
           Wada, M. and Abe, C.
           Cloning and expression of the gene for the Avi-3 antigen of
 TITLE
           Mycobacterium avium and mapping of its epitopes
           Infect. Immun. 60 (3), 1210-1216 (1992)
  JOURNAL
              (bases 1 to 1665)
REFERENCE
           Hickey, M.J.
 AUTHORS
 TITLE
           Direct Submission
           Submitted (07-DEC-1994) Mark J. Hickey, TB & Molecular
  JOURNAL
           Microbiology, PathoGenesis Corp., 201 Elliott Ave. W., Seattle, WA
            98119, USA
                                 Score 235.8; DB 1;
                                                     Length 1665;
 Query Match
                         14.1%;
  Best Local Similarity 55.3%;
                                Pred. No. 5.7e-48;
 Matches 506; Conservative
                                0; Mismatches 397;
                                                      Indels
                                                               12;
                                                                   Gaps
                                                                            2;
         469 ATTCACCGTTATAGTTATAGGCATGAGCAATAAAGAGTACCGGCCCACACTCGCCCAGCT 528
Qу
                 11 1 1 1 1 1 1 1
                                                              682 ATTTCCCACTACACTTATAGGTATGCCCGATAAGACTTATCAGCCCACGATCGCCGGCCT 741
Db
         529 TCGCACCTTTGTCACCATCGCAGAATGCAAGCACTTTGGTACTGCTGCCACCAAGCTGTC 588
Qу
                                            11 11 1
                                                       111 11 11
                                                                     111 1111 111 1 1111 11
         742 GCGCGCCTTCGTCGCGGTCGCCGAGAAGCGCCAATTCAGCGGTGCCGCAACGGCTTTGGG 801
Db
         589 CATTTCGCAGCCATCCCTCTCCCAGGCACTTGTCGCATTAGAAACAGGCCTGGGAGTTCA 648
Qу
                    111 1 1 11 11 11 111
                                          Db
         802 AGTCAGCCAGTCGACGCTGTCGCAGGTGTTGGCGGCGCTGGAGGCGGGGCTGGGCACGCA 861
         649 GCTGATTGAACGCTCCACCCGCAAGGTCATTGTCACCCCAGCGGGCGAGAAGTTGCTGCC 708
Qу
             1 11 1 11 1111111111
                                      11111
         862 GTTGGTGGAGCGCTCCACCCGGCGTGTCTTCTTGACACCCCAGGGCGCCGAGCTGCTGCC 921
Db
         709 ATTCGCCAAATCCACCCTTGACGCGGGGGGTCTTTCCTCTCCCACGCCAAGGGCGCCAA 768
Qу
                              1 11 1111 11 1 111 1 1
                                                           \mathbf{H}
                                                                    1 1
                 922 GCACGCCAGGCCGTGGTCGAGGCGGCCGACGCCTTCACCGCGGCGGCGGCGGGTTCGAC 981
Db
         769 CGGTTCGCTCACTGGACCGTTGACCGTAGGCATCATCCCCACGGCGGCTCCTTACATTTT 828
Qу
                                 11
                                       1 11
                                            Db
         982 GGACCCGTTGCGGGCCGGCATGCGGCTGGGGCTGATCCCCACGGTGGTGCCCTACGTGCT 1041
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		Qy	829 GCCGTCAATGCTGTCCATCGTGGATGAAGAATATCCAGATCTGGAACCTCACATCGTCGA 888
		Db	
		Qy	889 GGACCAAACCAAGCATCTTCTCGCGTTGCTGCGCGACGGCGCCATCGACGTCGCCATGAT 948
		Db	
		Qу	949 GGCCCTGCCTTCTGAGGCACCAGGCATGAAGGAAATCCCCCTCTACGACGAAGACTTTAT 1008
		Db	
		Qy	1009 CGTCGTTACAGCTAGCGATCACCCCTTCGCCGGCCGCCAAGACTTAGAACTATCCGCCTT 1068
		Db	1222 GCTCGCGCTTCCGCCGGGCCACCCGCTGGCGGGCAAGCGCCGGGTGCCGGCGACGGCGCT 1281
		Qу	1069 AGAAGACCTCGATCTGCTTCTCGACGACGACACTGCCTCCACGACCAAATTGTGGA 1128
		Db	1282 GGCCGACCTGCCGCTGCTGCACGACGACGACCAGGCGCTGGA 1341
		QУ	1129 CCTGTGCCGCCGCGGAGACATCAACCCCATTAGCTCCACTACTGCTGTCACCCGCGCATC 1188
		Db	1342 CGTCTGCCACAAGGCGGGTGTGCGGGGGGGGGGGCGGAGCTGGCCAATACCCGGGCCGC 1392
		Qy	1189 CAGCCTTACCACCGTCATGCAGCTCGTCGCCGGCCTTGGATCCACCTTGGTCCCAAT 1248
		Db	1393 CTCGCTGGCCACCGCGGTGCAGTGCGTGACCGGCGGCCTGGGGGGTGACGCTCATCCCGCA 1452
		Qу	1249 CAGCGCAATCCCATGGGAATGCACCCGACCAGGACTGGCAACAGCCAACTTCAACTCTGA 1308
		Db ·	1453 GAGCGCGGTCCCGGTGGAGGCGTCGCGCAGCCGGCCTGGCCCAGTTCGCCGCGCC 1512
		QУ	1309 TGTCACCGCAAACCGCCGCATTGGATTGGTGTACCGTTCCTCTTCTTCTCGCGCCGAAGA 1368
		Db	1513 GCGCCCGGGCCGGCGCATCGGCCTGGTGTTCCGCTCGAGCGGGCGCGACGACTC 1569
		Qу	1369 GTTCGAACAGTTTGC 1383
		Db .	1570 CTACCGCGAGCTGGC 1584
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